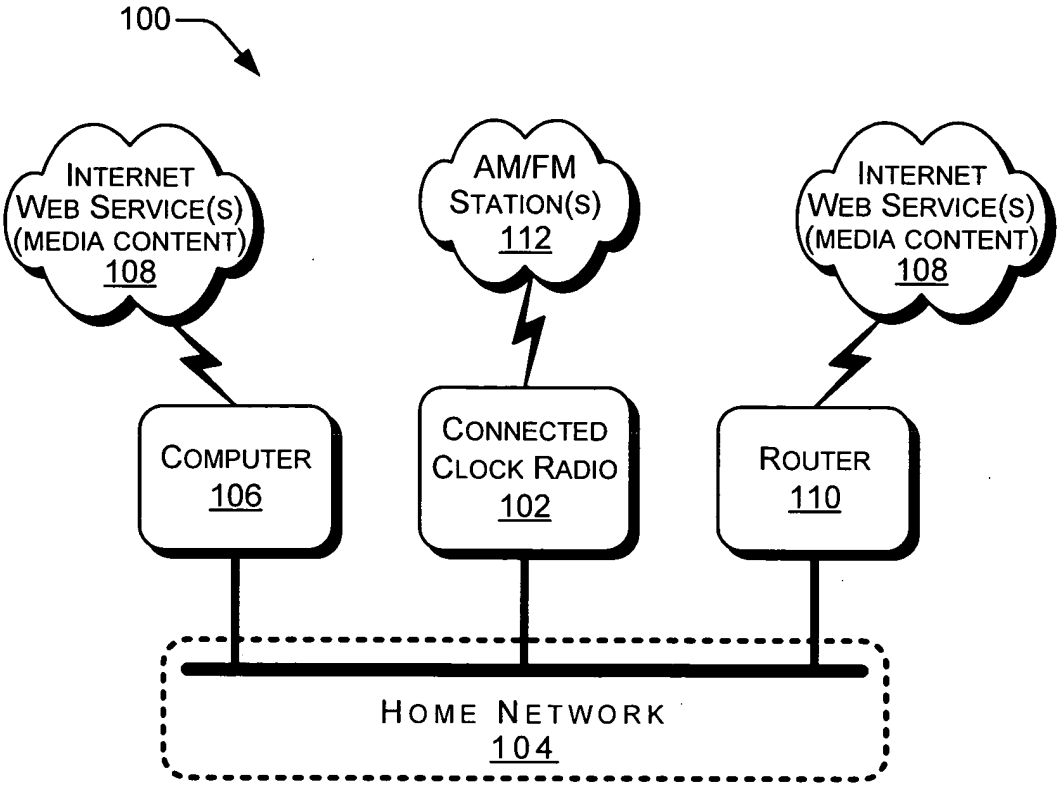
100
INTERNET WEB SERVICE(S) (MEDIA CONTENT) 108
AM/FM STATION(S) 112
INTERNET WEB SERVICE(S) (MEDIA CONTENT) 108
COMPUTER 106
CONNECTED CLOCK RADIO 102
ROUTER 110
HOME NETWORK 104

Fig. 1

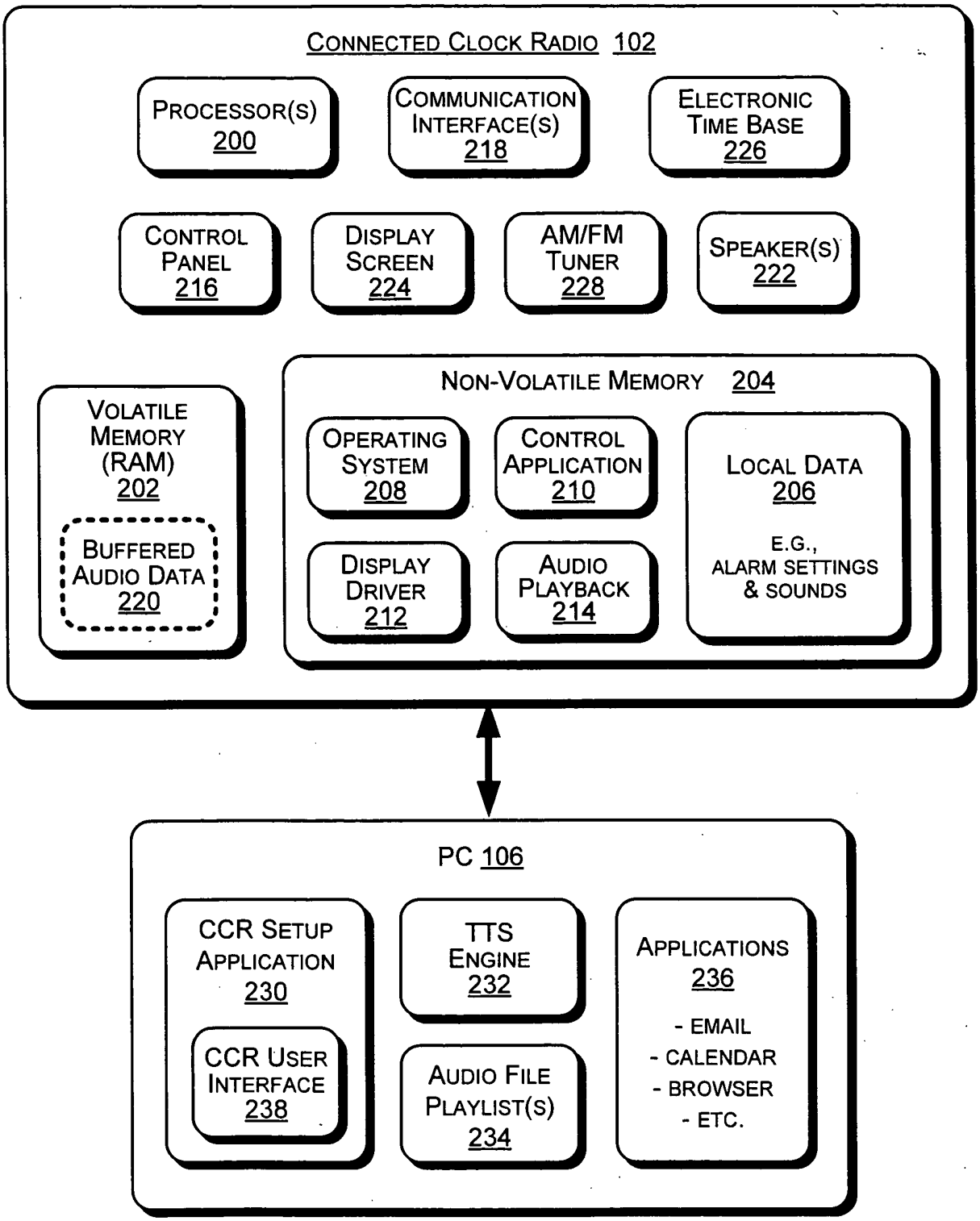
CONNECTED CLOCK RADIO 102
PROCESSOR(S) 200
COMMUNICATION INTERFACE(S) 218
ELECTRONIC TIME BASE 226
CONTROL PANEL 216
DISPLAY SCREEN 224
AM/FM TUNER 228
SPEAKER(S) 222
VOLATILE MEMORY (RAM) 202
BUFFERED AUDIO DATA 220
NON-VOLATILE MEMORY 204
OPERATING SYSTEM 208
CONTROL APPLICATION 210
LOCAL DATA 206
E.G., ALARM SETTINGS & SOUNDS
DISPLAY DRIVER 212
AUDIO PLAYBACK 214
PC 106
CCR SETUP APPLICATION 230
CCR USER INTERFACE 238
TTS ENGINE 232
AUDIO FILE PLAYLIST(S) 234
APPLICATIONS 236
- EMAIL
- CALENDAR
- BROWSER
- ETC.

Fig. 2

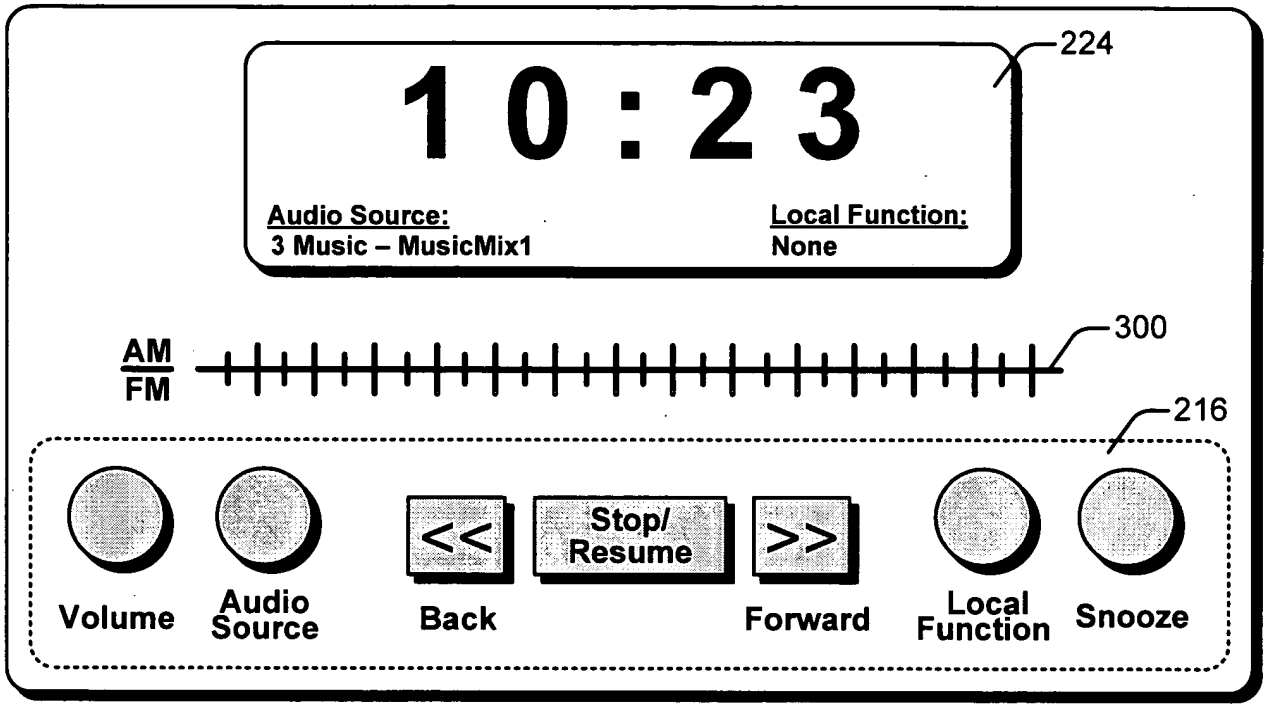
224
10:23
Audio Source:
3 Music – MusicMix1
Local Function:
None
AM
FM
300
216
Volume
Audio Source
<<
Stop/ Resume
>>
Back
Forward
Local Function
Snooze

Fig. 3

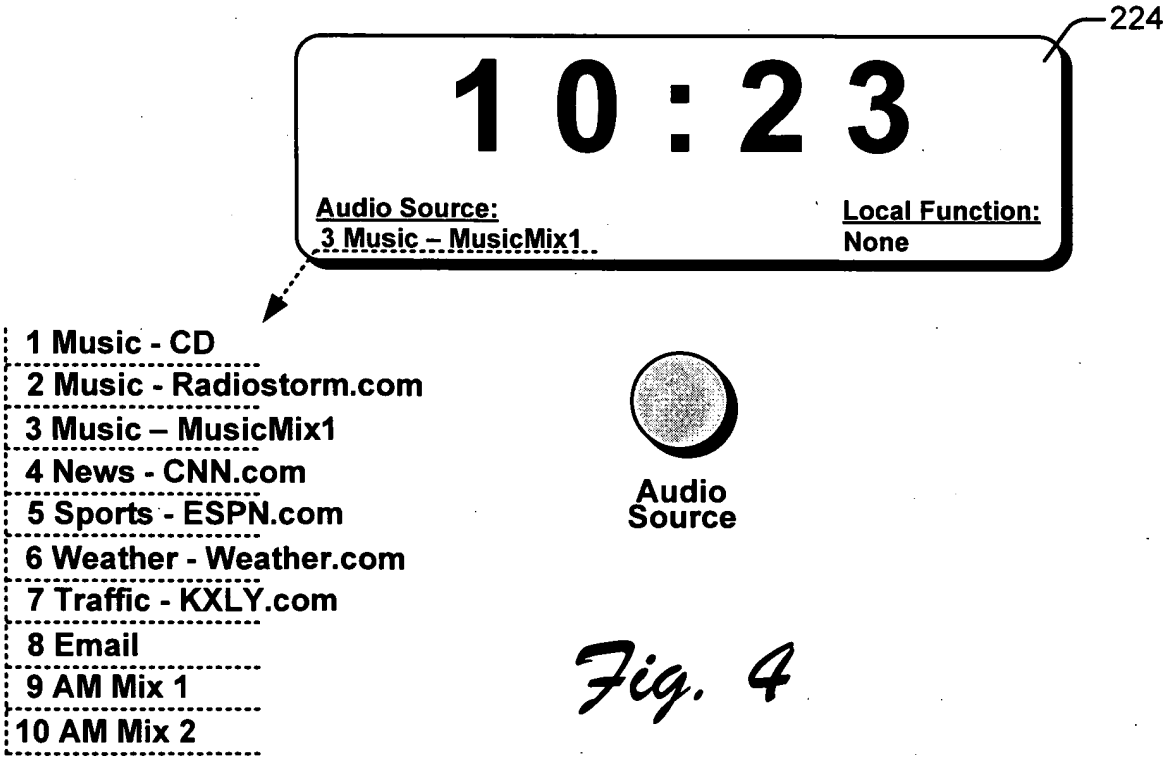
224
10:23
Audio Source:
3 Music – MusicMix1
Local Function:
None
1 Music - CD
2 Music - Radiostorm.com
3 Music – MusicMix1
4 News - CNN.com
5 Sports - ESPN.com
6 Weather - Weather.com
7 Traffic - KXLY.com
8 Email
9 AM Mix 1
10 AM Mix 2
Audio Source

Fig. 4

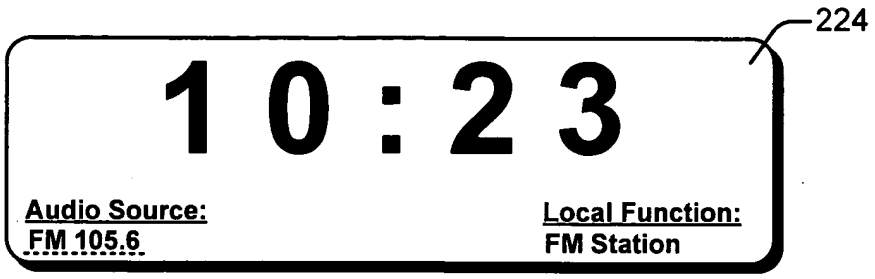
224
10:23
Audio Source:
FM 105.6
Local Function:
FM Station

Fig. 5

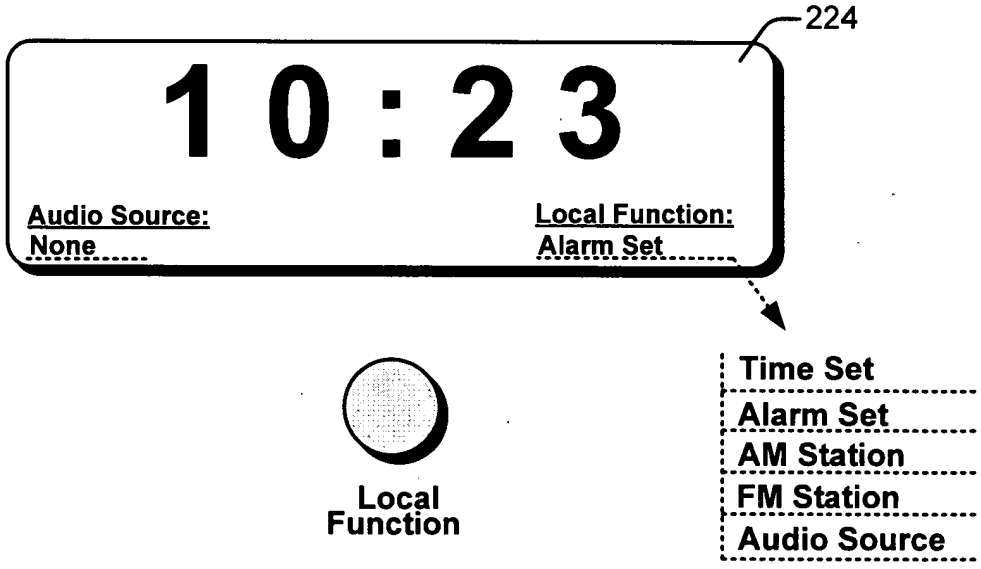
224
10:23
Audio Source:
None
Local Function:
Alarm Set
Local Function
Time Set
Alarm Set
AM Station
FM Station
Audio Source

Fig. 6

700

| Alarm Settings - Connected Clock Radio | | | | | |
|---|---|---|---|---|---|
| Profile | | Alarm Time | Alarm Sound | Daily? Y/N/App. | Post-Alarm Audio Data (Audio Source Name) |
| # | Active Y/N? | | | | |
| 1 | Y | 6:15 AM | Ocean.wav | Y | AM Mix 1 |
| 2 | N | 11:00 AM | Storm.wav | N | AM Mix 2 |
| 3 | N | Calendar | Ocean.wav | Calendar | AM Mix 1 |

Fig. 7

800

| Audio Sources (Post-Alarm Audio Data) | | |
|---|---|---|
| Source # | Source Name | Source Location |
| 1 | Music 1 | CD |
| 2 | Music 2 | Radiostorm.com |
| 3 | Music 3 (Playlist) | C:\MyMusic\MusicMix1 |
| 4 | News | CNN.com |
| 5 | Sports | ESPN.com |
| 6 | Weather | Weather.com |
| 7 | Traffic | KXLY.com |
| 8 | Email | Email Application |
| 9 | AM Mix 1 (Playlist) | C:\MyMusic\AM-Mix1 |
| 10 | AM Mix 2 (Playlist) | C:\MyMusic\AM-Mix2 |
| 11 | | |
| 12 | | |

Fig. 8

| AM MIX 1 (PLAYLIST) | |
|---|---|
| AUDIO FILE | SOURCE |
| song1.wma | C:\My Music\AM-Mix1 |
| song2.wma | C:\My Music\AM-Mix1 |
| email1.wma | C:\My Music\AM-Mix1 |
| email2.wma | C:\My Music\AM-Mix1 |
| email2.wma | C:\My Music\AM-Mix1 |
| traffic.wma | C:\My Music\AM-Mix1 |
| news.wma | C:\My Music\AM-Mix1 |
| song3.wma | C:\My Music\AM-Mix1 |

Fig. 9

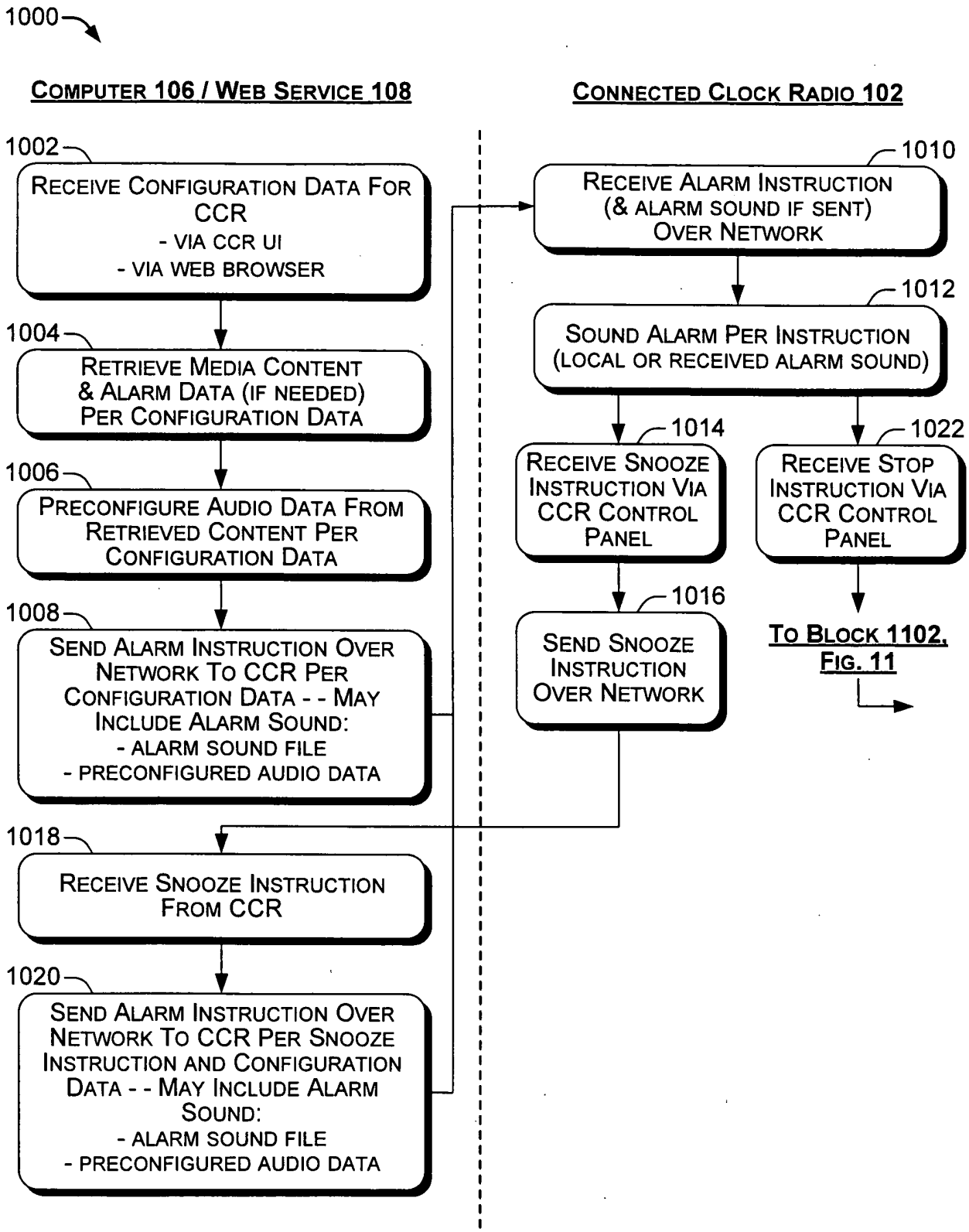
1000
COMPUTER 106 / WEB SERVICE 108
CONNECTED CLOCK RADIO 102
1002
RECEIVE CONFIGURATION DATA FOR CCR
- VIA CCR UI
- VIA WEB BROWSER
1004
RETRIEVE MEDIA CONTENT & ALARM DATA (IF NEEDED) PER CONFIGURATION DATA
1006
PRECONFIGURE AUDIO DATA FROM RETRIEVED CONTENT PER CONFIGURATION DATA
1008
SEND ALARM INSTRUCTION OVER NETWORK TO CCR PER CONFIGURATION DATA - - MAY INCLUDE ALARM SOUND:
- ALARM SOUND FILE
- PRECONFIGURED AUDIO DATA
1018
RECEIVE SNOOZE INSTRUCTION FROM CCR
1020
SEND ALARM INSTRUCTION OVER NETWORK TO CCR PER SNOOZE INSTRUCTION AND CONFIGURATION DATA - - MAY INCLUDE ALARM SOUND:
- ALARM SOUND FILE
- PRECONFIGURED AUDIO DATA
1010
RECEIVE ALARM INSTRUCTION (& ALARM SOUND IF SENT) OVER NETWORK
1012
SOUND ALARM PER INSTRUCTION (LOCAL OR RECEIVED ALARM SOUND)
1014
RECEIVE SNOOZE INSTRUCTION VIA CCR CONTROL PANEL
1016
SEND SNOOZE INSTRUCTION OVER NETWORK
1022
RECEIVE STOP INSTRUCTION VIA CCR CONTROL PANEL
TO BLOCK 1102, FIG. 11

Fig. 10

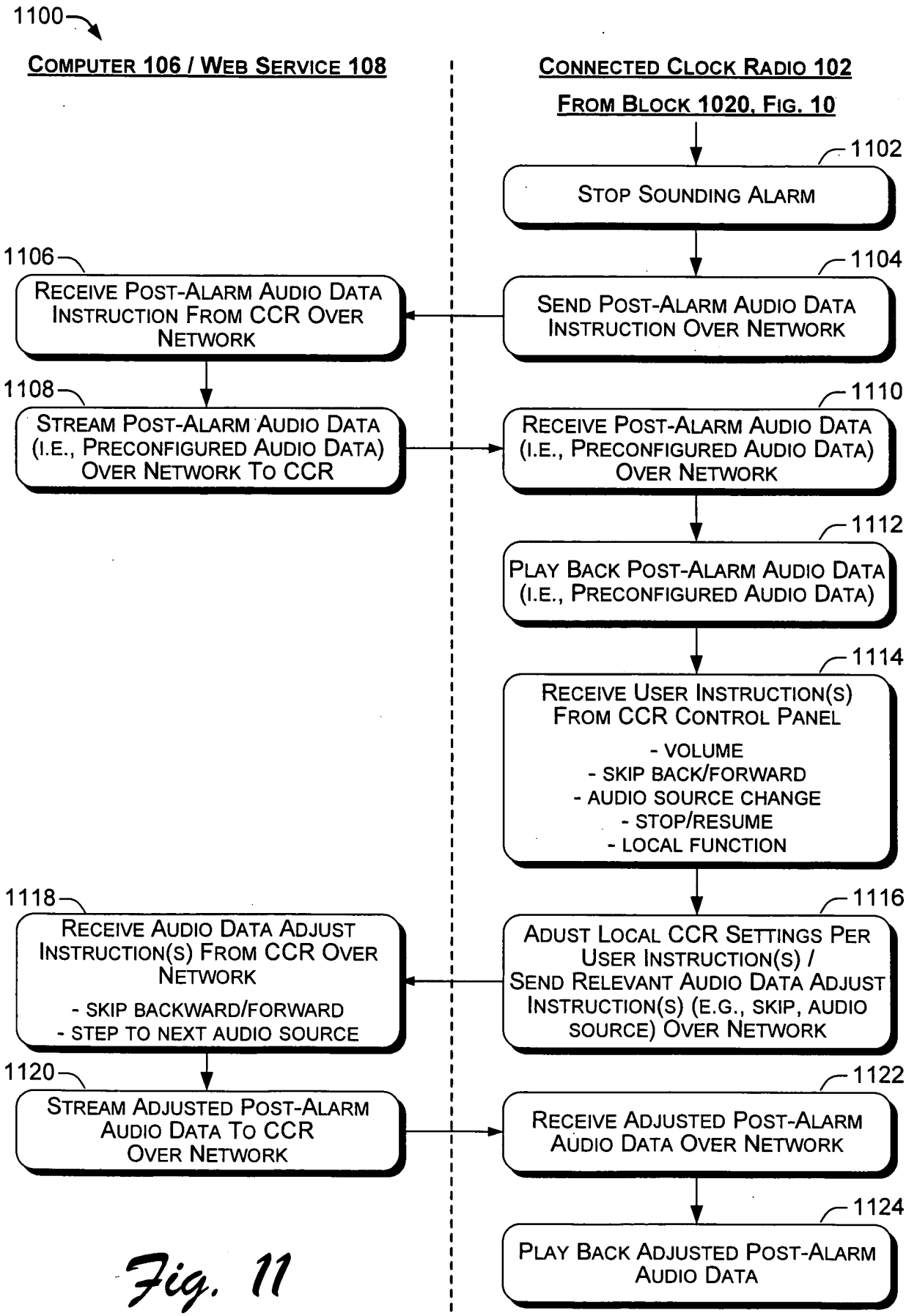
1100
COMPUTER 106 / WEB SERVICE 108
CONNECTED CLOCK RADIO 102
FROM BLOCK 1020, FIG. 10
1102
STOP SOUNDING ALARM
1104
SEND POST-ALARM AUDIO DATA INSTRUCTION OVER NETWORK
1106
RECEIVE POST-ALARM AUDIO DATA INSTRUCTION FROM CCR OVER NETWORK
1108
STREAM POST-ALARM AUDIO DATA (I.E., PRECONFIGURED AUDIO DATA) OVER NETWORK TO CCR
1110
RECEIVE POST-ALARM AUDIO DATA (I.E., PRECONFIGURED AUDIO DATA) OVER NETWORK
1112
PLAY BACK POST-ALARM AUDIO DATA (I.E., PRECONFIGURED AUDIO DATA)
1114
RECEIVE USER INSTRUCTION(S) FROM CCR CONTROL PANEL
- VOLUME
- SKIP BACK/FORWARD
- AUDIO SOURCE CHANGE
- STOP/RESUME
- LOCAL FUNCTION
1116
ADUST LOCAL CCR SETTINGS PER USER INSTRUCTION(S) / SEND RELEVANT AUDIO DATA ADJUST INSTRUCTION(S) (E.G., SKIP, AUDIO SOURCE) OVER NETWORK
1118
RECEIVE AUDIO DATA ADJUST INSTRUCTION(S) FROM CCR OVER NETWORK
- SKIP BACKWARD/FORWARD
- STEP TO NEXT AUDIO SOURCE
1120
STREAM ADJUSTED POST-ALARM AUDIO DATA TO CCR OVER NETWORK
1122
RECEIVE ADJUSTED POST-ALARM AUDIO DATA OVER NETWORK
1124
PLAY BACK ADJUSTED POST-ALARM AUDIO DATA

Fig. 11

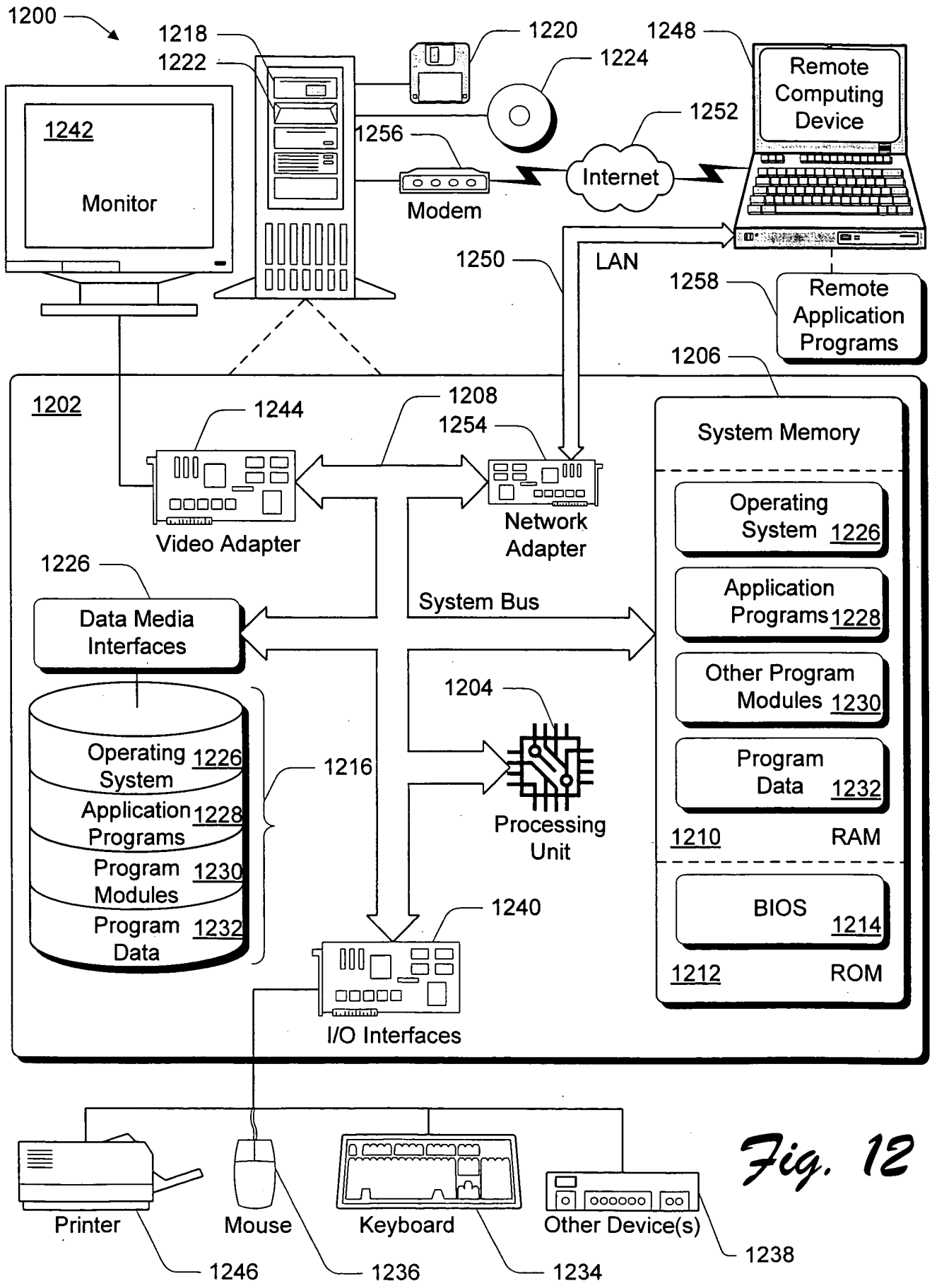
1200
1218
1222
1220
1224
1248
Remote Computing Device
1252
1242
Monitor
1256
Modem
Internet
1250
LAN
1258
Remote Application Programs
1206
1202
1244
1208
1254
System Memory
Video Adapter
Network Adapter
Operating System 1226
Application Programs 1228
Other Program Modules 1230
Program Data 1232
1226
Data Media Interfaces
System Bus
1204
1216
Operating System 1226
Application Programs 1228
Program Modules 1230
Program Data 1232
Processing Unit
1210
RAM
BIOS 1214
1212
ROM
1240
I/O Interfaces
Printer
Mouse
Keyboard
Other Device(s)
1246
1236
1234
1238

Fig. 12